UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE

MINERAL SURVEY NO. 4231
FIELD NOTES
Of The Survey Of The Mining Claim Of
MAGMA COPPER COMPANY
Known As The
HORSESHOE NO. 1, HORSESHOE NO. 2, and SILVER TIP EXTENSION NO. 2
PIONEER Mining District, PINAL County, AR IZ ONA
25 & 36 12 E Section s 30 & 31 , Township 1 S , Range 13 E
Surveyed under instructions dated December 7 , 1939
by Ralph L. Motz UXXX Mineral Surveyor, G.L.O.
Claim located see location notices , 19
Survey commenced January 21 , 19 40
Survey completed January 26 , 19 40
Address of claimant's attornery, Edward W. Rice, P.O.Box 893, Globe, Arizona.
DATES OF AMENDED LOCATIONS
may 17, 1939.

Feet

Mineral Survey No. 4231 was made with a Gurley & Sons Precise Transit, light mountain model, with horizontal limb 6.25 inches in diameter, having two double opposite verniers, and full vertical circle 5 inches in diameter, having one double vernier; the verniers read to one min-ute of arc; the eye piece is equipped with a prismatic eye piece with colored glass slide for making direct observations upon the sun. The instrument was in good condition at the time of survey, and all adjustments were in good order. A p.m. altitude observation of the sun for azimuth, and at noon on the meridian for latitude, were made at Cor. No. 4 of the Horseshoe No. 1 lode, the details of which observations are shown in the calculation sheets sumitted herewith for examination. All azimuths in this record are referred to the true meridian thus determined, by the method of deflection angles and calculated courses.

The lines were measured with a Keuffel & Esser steel tape, 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for the entire length. all tapes were compared with a Lufkin standard steel tape at the time of beginning the survey, and found correct.

All lines and connections of this survey were run by

direct methods.

The magnetic variation observed at each corner of the survey gave a uniform value of 14° 15' E.

HORSESHOE NO. 1

Beginning at Cor. No. 1 of the Horseshoe No. 1 lode,

Identical with Cor. No. 4 Survey No. 2995, Horse Shoe lode and situated on line 4-1. Survey No. 2995, Silver Tip

Set an iron post, 2 inches in diameter, 3 feet long, 18 inches in the ground, with iron cap, for Cor. No. 1 mkd. HS-4-2995; H1-1-4231; from which

A dacite ledge, 41x98 ins., 62 ins. above ground bears N. 5°:02' E, 11 ft., mkd. ER x H1-1-4231

... A dacite ledge, 50x67 ins., 123 inches above ground bears S. 3° 10' W., 23.0 ft., mkd. BR x H1-1-4231

The 1 Sec. Cor. between Secs. 25 and 36, T. 1 S., R 12 E., G. & S. R. Book M., bears S. 19° 48° W., 76.0 ft. dist., an iron post with brass cap, properly set and marked as described in the official record.

loor to bayon a ani

149.6 To Cor. No. 2

> Identical with Cor. No. 4, Survey No. 2995 Silver Tip Extension and with Cor. No. 1 Survey No. 4093 Silver Tip Extension No. 1 lodes

An iron pipe, with iron cap, 3 ins. diam., 30 ins. above ground, in a mound of rocks 4-2995; 1-STEL-4093; which I mark H1-2-4231 for this claim.

lode of this survey.

Thence N. 88° 49' E.

delicated with for, ic.

I dob

3

	Feet	tent l	
	1340.25	Cor. No. 4 Horseshoe No. 2 lode of this survey	
	1344.88.	To Cor. No. 3 val. tede table at the date of the contract of t	
	do toon.	Situated on line 4-1 Survey No. 4093 Silver Tip Extension No. 1 lode; and on line 4-5 of the Horseshoe No. 2 lode of this survey	
	urre is sen res e, ware	Set an iron pipe, 2 ins. diameter, 3 ft. long, with iron cap, 18 inches in the ground for Cor. No. 3 from which	
	abivalue augusts	A dacite ledge, 39x41 ins., 43 ins. above ground bears S. 20° 11' W., 7.6 ft., mkd. BR x H1-3-4231	
	i i esta	A dacite ledge, with vertical face 10x30 ft., facing southeast bears N. 2° 55' E., 28.2 ft., mkd. BR x H1-3-4231	
	ć	The orfginal location for the northeast corner, bears N. 1° 27' W., 9.7 ft. being a post, 4 inches square, 24 inches above ground, in a mound of rocks.	
	13.00	Thence S. 1° 27' E.	
3	290.3	To intersect lode line at or the east end center, being a mound of rocks, 3 feet high, 3 foot base	
	590.3	To Cor. No. 4 by weeds for all all all all all all all all all al	1
		Identical with Cor. No. 3 of the Horseshoe No. 2 lode of this survey, where I	
	atio	mkd. H1-4-4231; H2-3-4231; from which	
		A dacite ledge, 37x48 ins., 22 ins. above ground, bears S. 87° 35' E., 5.1 ft. mkd. BR x Hl-4-4231	
	Lone,	A dacite ledge, 50x145 ins., 72 ins. above ground, bears S. 61° 52' W., 25.0 ft., mkd. BR x H1-4-4231	
1 7 1	and arm	Thence S. 88° 24' W.	
	1444.48	An iron pipe, 2 ins. diameter, 3 ft; long, with iron cap, set 12 ins. in the ground to bedrock, surrounded with mound of rocks, for witness, Cor. to Cor. No. 5, mkd. WC-H1-5-4231	
The state of the s	1494.48	This corner falls on the side of a vertical cliff where	
	300.00		il se.
	599.76		
	600.0	Cor. No. 1, and place of beginning.	
	ns.ioob	-HORSESHOE NO. 2 B ML , DOUBLE STORE	
		Beginning at Cor. No. 1 of the Horseshoe No. 2 lode	
		Identical with Cor. No. 1 of the Silver Tip Extension No. 2 lode of this survey.	

	Feet	Set an iron pipe, 2 ins. diameter, 3 ft. long, 18 ins.
		in the ground, with iron cap, for Cor. No. 1, mkd. H2-1-4231; STE2-1-4231; from which
	p	A dacite ledge, 65xll3 ins., 80 ins. above ground bears S. 84° 12' E., 8.6 ft. dist., mkd. BR x H2-1-4231
:		A dacite ledge, 43x164 ins., 49 ins. above ground bears S. 73° 23' W., 8.5 ft. dist., mkd. BR x H2-1-4231
	vevil	The Cor. of Secs. 25 and 36, T. 1 S., R. 12 E., and Secs. 30 and 31, T. 1.S., R. 13 E., G. & S. R. Park M. bears S. 79° 19' W., 377.0 ft. dist., an iron pipe with brass cap, properly set and marked as decribed in the official record.
	675 500	Thence S. 1° 54' E.
	. 210.0	Center Highway, Globe to Superior, 30 ft. wide, coursenortheasterly
	300.0	o intersect lode line at Original location for the east end center, being a mound of rocks 3 ft. high, 3 ft. base
	415.0	Center Queen Creek, 30 ft. wide, course southwesterly
	600.0	Cor. No. 2
*	20 98 .	Set an iron pipe, 2 ins. diameter, 3 ft. long, 6 ins. in the ground to bed rock, surrounded by monument of rocks, with iron cap, for Cor. No. 2, mkd. H2-2-4231; from which
•	inton	A dacite rock in place, 90x122 ins., 63 ins. above ground, bears N. 75° 08' E.; 21.5 ft. mkd. BR x H2-2-4231
0	faios Tours	a dacite rock in place, 38x41 ins., 27 ins. above ground, bears S. 20° 02' W., 7.15 ft., mkd. BR x H2-2-4231
	. 1	Thence N. 87° 35' W.
	625.0	Center Queen Creek, 50 ft. wide, course southwesterly
	831.68	Intersect line 1-2 Sur. No. 4150 Spring lode, at a point from which Cor. No. 2 bears S. 9° 40' 30" W., 245.76 ft. dist.
	1232.0	Center Highway, Globe to Superior, 30 ft. wide, course southerly
	1330.3	Intersect line 3-4 Sur. No. 4150 Spring lode, at a point from which Cor. No. 3 bears S. 9° 40' 30" W., 522.78 ft. dist.
	1489.3	Cor. No. 3 which is identical with Cor. No. 4 of the Horseshoe No. 1 lode of this survey
3	2.700	Thence N. 1º 54' W.
	300.0	Original location for the west end center, being a mound of rocks, 3 ft. high, 3 ft. base.
	590.3	Cor. No. 4
	Statem a	Situated on line 4-1 Sur. No. 4093 Silver Tip Extension No. 1 lode and on line 2-3 of the Horseshoe No. 1 lode of this survey, where I

MINERAL.	SURVEY	NO.	4231	ARTZONA

	Feet	Teat Jeat - Joseph - Line. discotor, That - Joseph - J
		Set an iron pipe, 2 ins. diameter, 3 ft. long, with iron cap, 18 ins. in the ground, for Cor. No. 4, mkd. H2-4-4231
	1689-	A corner of the location bears N. 1° 54 W., 9.7 ft. dist.
		Thence N. 88° 49. E.
ab	4.63	Cor. No. 3 of the Horseshoe No. 1 lode of this survey
	139.95	Cor. No. 5
		Identical with Cor. No. 4 Sur. No. 4093 Silver Tip Extension No. 1 lode and with Cor. No. 2 of the Silver Tip Extension No. 2 lode of this survey, being an
	ORTHO	Tron pipe, 12 ins. above a monument, 4 ft. diam, 2 ft. high, mkd. 4-STE1-4093; H2-5-4231; STE2-2-4231; from which
	TIVE	A dacite ledge, vertical face 10x35 ft., facing northeast bears S. 66° 24' W., 15.5 ft., mkd. BR x H2-5-4231
	d ani	A dacite ledge, vertical face 25x75 ft., facing east bears N. 8° 10' W., 15.0 ft., mkd. BR x H2-5-4231
	DET 10	Cor. No. 4 Sur. No. 4150 Spring lode bears N. 35° 03' E., 523.67 ft. dist.
	avco	Thence S. 87° 37' E.
1	139.84	Intersect line 3-4 Sur. No. 4150 Spring lode at a point from which Cor. No. 3 bears S. 9° 40' 30" W., 1125.10 ft. dist.
	638,46	Intersect line 1:2 Sur. No. 4150 Spring lode, at a point from which Cor. No. 2 bears S. 9° 40° 30" W., 848.36 ft. dist.
	1348.9	Cor. No. 1 and place of beginning.
	s poin	SILVER TIP-EXTENSION-NO. 2
		Beginning at Cor. No. 1 of the Silver Tip Extension No. 2 lode, which is identical with Cor. No. 1 of the Horses shoe No. 2 lode of this survey
	nion to	Thence N. 87° 37' W.
	710.44	Intersect line 1-2 Sur. No: 4150 Spring lode, at a point from which Cor. No. 1 bears N. 9° 40' 30° E., 551.44 ft. dist.
	1209.0	6 Intersect line 3-4 Sur. No. 4150 Spring lode at a point from which Cor. No. 4 bears N. 9° 40' 30" E., 274.7 ft. dist. Cor.No.1 said lode bears N. 65°10' E. 600.2 ft.from Cor.No. 4 thereof.
	1348.9	4 thereof. Cor. No. 2
		Identical with Cor. No. 5 of the Horseshoe No. 2 lode of this survey
	nolarat	Thence N. 1° 33' W.
	300.0	Original location for the west end center, being a mound of rocks, 3 ft. high, 3 ft. base

			MINERAL SURVEY NO. 4231 - ARIZONA.	5
		Feet		T
-		600.0	Cor. No. 3, on line 2-3, Sur. No. 4093, Silver Tip Extension No. 1 lode.	
		Lau Imor	Set an iron pipe, 2 ins. diam., 3 ft. long, with iron cap, 12 ins. in the ground to bed rock, surrounded with monument of rocks, for Cor. No. 3, mkd. STE2-3-4231; from which	
and the state of t		, ,	Cor. No. 3 Sur. No. 4093 Silver Tip Extension No. 1 lode bears N. 88° 49° E., 4.54 ft. dist.	
-			Thence S. 87° 37' E.	
	200	4.55	Intersect line 3-4 Sur. No. 4093 Silver Tip Extension No. 1 lode at a point from which Cof. No. 3 bears N. 1° 07' W. 0.28 ft. and Cor. No. 4 bears S. 1° 07' E., 599.72 ft.	
		1497.5	Cor. No. 4	
:			Set an iron pipe 2 ins. diam., 3 ft. long, with iron cap, 18 ins. in the ground for Cor. No. 4; mkd. STE2-4-4231; from which	
-	1000	the the u	A dacite rock in place, 20x58 ins., 49 ins. above ground bears S. 42° 05' W., 6.9 ft., mkd. ER x STE2-4-4231	
-	rg)	drin or drin	A dacite bluff, vertical face 7x17 ft. facing south, bears N. 23° 30' E., 17.5 ft.	
		300.0 To	Thence S. 1° 33° E. o intersect lode line at Original location for the east end center, being a mound of rocks, 3 ft. high, 3 ft. base	
		590.0	Cor. No. 5	
	egal s		Set an iron pipe; 2 ins. diam., 3 ft. long, with iron cap, l8 ins. in the ground for Cor. No. 5; mkd. STE2-5-4231; from which	
			A dacite ledge, 24x54 ins., 58 ins. above ground, bears N. 87° 54' W., 14.9 ft. mkd. BR x STE2-5-4231	
		Lovel	A dacite bluff, vertical face llx18 ft., facing west, bears N. 15° 10' W., 8.9 ft., mkd. ER x STE2-5-4231	
	_	and die	A corner of the location bears S. 1° 33' E., 10.0 ft.	
		obti a	Thence S. 88° 30° W.	
-		148.2	Cor. No. 1 and place of beginning.	
			LODE LINES.	
	0	Company of the Party of the Par	The presumed course of the vein of each of the several lode locations embraced in this survey, counted from the respective points of discovery, is as follows:	
		900 E	Horseshoe No. 1 lode, N. 88° 24' E., 82 ft.; and, S. 88° 24' W., 1412.48 ft.	
***			Horseshoe No. 2 lode, N. 87° 35' W., 75 ft.; and, S. 87° 35' E., 1414.3 ft.	
	4	Casa Last	Silver Tip Extension No. 2 lode, N. 87° 37' W., 186 ft.; and, S. 87° 37' E., 1311.5 ft.	

3	D	773	8	S	
- 63	H	m.	M	4	-

Total area Horseshoe No.1 lode, 20.434 Area in conflict with

Sur. No. 2995 Silver Tip Extension lode, nominal Total area, Horseshoe No. 2 lode - - - - 20.425

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TH. C.

Area in conflict with

6.841 Sur. No. 4150 Spring lode - - - - - -Horseshoe No. 1 lode of this survey - - - -0.031

Total area, Silver Tip Extension No. 2 lode 20.562

rea in conflict with

Sur. No. 4093 Silver Tip Extension No. 1'lode = 0.031 Sur. No. 4150 Spring lode - - - - - - 4.690

LOCATION.

This survey is located in SE and Lot 6, Sec. 25, the NE NE and Lot 1, sec. 36, T: 1 S.; R 12 E.; Lot 4, sec. 30 and lot 1, sec. 31, T. 1 S., R 13 E., G. & S. R. Boxá M., within the Crook National Forest.

The survey of the claims of this survey is identical with or within the lines of location as marked on the ground. EXPENDITURE OF \$500

I certify that the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or its grantors is as shown, and that said improvements consist of:

HORSESHOE NO. 1

The discovery cut of the Horseshoe No. 1 lode, the face of which being the discovery point is on the center line, 82 ft. from the east end center; 4 ft. wide, 10 ft. No. 1 face, running West 12 ft. to face.
Value \$50 med .

A diamond drill hole, horizontal from the 2000 ft. level, the start of which bears N. 69° 20' W., 390 ft. from No. 2 Cor. No. 5, running South 283 ft. This drill hole has been started on the Silver Tip Extension No. 1 lode, Sur. No. 4093 and ends in the Horse-shoe No. 1 lode, being of equal benefit to these two lode claims. Therefore an undivided 1/2 vis allotted to each.

Total Value \$1216.90 Value 1/2 interest \$608.45

A diamond drill hole, horizontal from the 2000 ft. level, the start of which bears N. 47° 30° W., 182 ft. from Cor. No. 3 of the Horseshoe No. 1 lode, running South 197 ft. This drill hole has been started on Survey No. 4093 Silver Tip Extension No. 1 lode and ends in the Horseshoe No. 1 lode, being of equal benefit to these two lode claims. Therefore an undivided 1/2 interest is allotted to each.

Total value \$847.10
Value 1/2 interest \$423.55

No. 1 The discovery cut of the Horseshoe No. 2 lode, the face of which being the discovery point is on the center line 75 ft. from the west end center; 6 ft. wide, 10 ft. face running N. 25° W., 12 ft. to face. Value \$75

No. 3

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SILVER TIP EXTENSION NO. 2.

The discovery cut of the Silver Tip Extension No. 2 lode, the face of which abeing the discovery point is on the center line 186 ft. from the west end center; 6 ft. wide, 10 ft. face running N. 20° W., 14.0 ft. to face Value \$80

A diamond drill hole, horizontal from the 2000 ft. level, the start of which bears N. 5° 10' E., 135 ft. from Cor. No. 2 of the Silver Tip Extension No. 2 lode; running South 211 ft. This drill hole starts on the Silver Tip Extension No. 2 lode and ends on the Horseshoe No. 2 lode of this survey. Being of equal benefit to both lode claims.

Value \$.907.30 Value \$ 1/2 interest \$453.65

in diamond drill hole, horizontal from the 2000 ft. level, the start of which beers N. 67° 35' E., 354 ft. from Cor. No.2of the Silver Tip Extension No. 2 lode; running South 157 ft. This drill hole starts on the Silver Tip Extension No.2 lode and lends on the Horseshoe, No.2 lode of this survey, being of south herefit to both lode claims. Value 1675 10 of equal benefit to both lode claims. Value \$675.10

Value of 1/2 interest \$2691.80

- A diamond drill hole; horizontal from the 2000 ft. level, the start of which bears N. 69° 45° E., 450 ft. from Cor. No. 2 of the Silver Tip Extension No. 2 lode; running N. 75° E., 1252 ft. This drill hole starts on the Silver Tip Extension No. 2 lode and ends on the Silver Tip Extension No. 3 lode, unsurveyed, being of equal benefit to both lode claims.

 Total Value \$5383.60

 Value of 1/2 interest \$2691.80 No. 4
- A diamond drill hole, horizontal from the 2000 ft. level, the start of which bears N. 693.45' E., 450 ft. from Cor. No. 2 of the Silver Tip Extension No. 2 lode; running S. 73° 30' E., 1250 ft. This drill hole starts on the Silver Tip Extension No. 2 lode, runs through No. 5 Horseshoe No. 2 lode and ends on the Horseshoe No. 3 lode. This drill hole is of equal benefit to the three lode claims lode claims.

Total Value \$5375.00 Value of 1/3 interest \$1791.67

These claims are three of a group of mining claims consisting of 150 locations owned by the claimant in the vicinity of Superior, Pinal County, Arizona, a plat of which is herewith filed with the which is herewith filed with the state of the names of said claims are as follows: The Windsor lode, Lot 37; Surpriser No. 2 lode, Lot 38; Hub lode, Lot 41; Irene lode, Lot 42; Sur. No. 2144 Silver and Copper Pocket, Queen No. 2, Silver Tip and Blackfoot lodes; Sur. Nos. 2479 and 2860 Safety lode; Sur. No. 2860 Girtrude, Quien Sabe, Red Cloud, Wedge, Sunnyside, Caledonia, Republic. 2479 and 2860 Safety lode; Sur. No. 2560 Girtrude, Gulen Sabe, Red Cloud, Wedge, Sunnyside, Caledonia, Republic, Skyward, Golden Eagle, New Calumet, Excelsior, Golden Eagle Extension, Gold Crown and Square Deal lodes; Sur. No. 2929 Silverfide lode; Sur. No. 2930 A San Francisco, Oakland, Rain Cloud, Oversight, Queen Fraction and Sacramento lodes; Sur. No. 2994 Monarch, Reddy Pay, Jumbo, Shark, Fraction, Oversight No. 1 and Oversight No. 3 lodes; Sur. No. 2910 Extension and Horse Shoe lodes; Sur. 2995 Silver Tip Extension and Horse Shoe lodes; Sur. No. 4093Silver Tip Extension No. 1 lode; Sur. No. 4092 Overlook lode; Sur. No. 4150 Spring lode; Sur. No. 4231 (this survey) Horseshoe No. 1, Horseshoe No. 2 and Silver Tip Extension No. 2 lodes; and the following unsurveyed claims - Ash No. 1, Ash No. 2, Ash No. 3, Ash No. 4. Ash No. 5. Ash No. 6 Ash No. 7. Ash No. 8. Ash No. 4, Ash No. 5, Ash No. 6, Ash No. 7, Ash No. 8, Ash No. 9, Ash No. 10, Ash No. 11, Ash No. 12, Ash No. 13, ... 'Ash No. 14, Ash No. 15, Ash No. 16, Ace, Apex, Aldridge,

These claims are all being developed by the Claimant's No. 2 working shaft, which is a three-compartment shaft 4x14 ft. in the clear, part timbered and part lined with concrete, 3600 ft. deep, concreted to 3200 ft., located on Sur. No. 2144 Silver Tip lode.

Total Value \$402,500 Value of a 1/150th interest \$2683.33

From this shaft the following levels have been driven:

No. depth:	Length	size	Value per foot	Total Value
1600 1800 2000 2250 2550 2800 3000 3200 3600	3900 4560 10000 3060 8240 2830 5165 3420 2950	6x7 6x7 7x8 6x7 8x8 8x8 8x8 8x8	16.50 16.50 20.00 16.50 26.00 26.00 26.00	\$ 64,350 75,240 200,000 50,490 214,240 73,580 134,290 88,920 76,700

Total-Value \$ 977,810

Value of a 1/150th interest \$ 6,518.73

The above levels are shown on a separate accompanying map. The 2000 ft. and 2550 ft. levels enter the Silver Tip Extension No. 2 lode of this survey; and the 2550 ft. 2800 ft., and 3000 ft. levels enter the Horseshoe No. 1 lode of this survey.

The 150 claims owned by the claimant are shown on another accompanying map, together with the 2000 ft. level.

OTHER CORNER DESCRIPTIONS.

Sur. No. 2995 Horse Shoe lode: Cor. No. 4. was a post, properly set and mkd. which I changed to an iron pipe. Cor. No. 5 falls on an abrupt cliff. The witness corner for Cor. No. 5 is a post properly set and mkd. I find line 4-5 to be as reported. Silver Tip Extension lode: Cor. No. 4 is an iron pipe properly set and mkd. Cor. No. 1 is a post properly set and mkd. I find line 4-1 to be 18.88 20030 W. instead. of S.88 20 W. as

reported.

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Sur. No. 4093 Silver Tip Extension No. 1 lode: Cors. 1, 3 and 4 are iron pipes, properly set and mkd. I find line 3-4 and 4-1 to be as reported in the official returns.

Sur. No. 4150 Spring lode: Cors. 1, 2 and 4 are iron pipes properly set and marked. Cor. No. 3 falls in the main Highway. The witness corner is a post, properly mkd. and fastened to the retaining wall. I check the courses and distances of all lines, and find the tie to the section corner as reported.

I do not check the course and distance of the east half of the line between Secs. 25 and 36, finding same to be S. 89° 34' 30" E. 2632.5 ft. instead of S. 89° 52' E. 2643.3' ft. as reported.

FINAL OATHS FOR SURVEYS

LIST OF NAMES

A list of the names of the individuals employed h	y Ralph L. Motz
G.L.O., WhitedxStates Mineral Surveyor, to assist in running	
poundaries described in the foregoing field notes of the	ne survey of the mining claim of
MAGMA COPPER COM	PANY
known as the Horseshoe No. 1. Horseshoe	
No. 2 lodes and showing the respective capacities in which they ac	eted.
	Gordon Barnard , Chainman.
	, Chainman.
	, Axman.
	, Flagman.
FINAL OATHS OF	ASSISTANTS
Wex I, Gordon Barnard	
nd, do sole	amply sween that who excipted Relph I. Motz
, Kantedastentes Minera	l Surveyor/ in marking the corners and surveying
ne boundaries of the mining claim of Magna Coj	
To actual to of the mining claim of	ther company
nown as the Horseshoe No. 1, Horseshoe	No. 2 and Silver Tip Extension
No. 2 lodes	
presented in the foregoing field notes as having been	surveyed by said mineral surveyor and under his
rection; and that said survey has been in all respects,	to the best of our knowledge and belief, faithfully
d correctly executed, and the corner and boundary mon	uments established according to law and the instruc-
ons furnished by the Office Cadastral Engineer, at	Phoenix, Arizona
- Gar	can Barnard, Chainman.
	, Chainman.
	, Chainman.
	, Axman.
	, Flagman
Subscribed and sworn to by the above	ve-named persons before me this 27th
day ofJanuary	, 19 40 / m .'
	MA Muscher
GOVERNMENT PHENTING	
	My commission expires

DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE

FINAL OATH OF LOS. MINERAL SURVEYOR, G.L.O.

I, Ralph L. Motz , DXXS. Mineral Surveyor, G.L.O						
do solemnly swear that, in pursuance of instructions received from the Office Cadastral						
Engineer, at Phoenix, Arizona , dated December 7, 1939						
I have, in strict conformity to the laws of the United States, the official regulations						
and instructions thereunder, and the instructions of said Office Cadastral Engineer,						
faithfully and correctly executed the survey of the mining claim of						
MAGMA COPPER COMPANY , known as the						
Horseshoe No. 1. Horseshoe No. 2 and Silver Tip Extension No. 2 lodes						
situate in Mining District,						
Pinal County, Arizona , in Section						
25 & 36 30 & 31						
and designated as Survey No. 4231 , as represented						
in the foregoing field notes, which accurately show the boundaries of said mining claim						
as distinctly marked by monuments on the ground, and described in the attached copy of						
the location certificate, which was received by me from the Office Cadastral Engineer						
with said instructions, and that all corners of said survey have been established and						
perpetuated in strict accordance with the law, official regulations and instructions						
thereunder; and I do further solemnly swear that the foregoing are the true and original						
field notes of said survey and my report therein, and that the labor expended and im-						
provements made upon said mining claim by claimant or its.						
grantors are as therein fully stated, and that the character, extent, location, and						
itemized value thereof are specified therein with particularity and full detail, and						
that no portion of said labor or improvements so credited to this claim has been in-						
cluded in the estimate of expenditures upon any other claim.						
Ralfoh R. Moh						
Subscribed and sworn to by the said Ralph L. Motz						
Ux Sk Mineral Surveyor, before me W. H. Wie scher, Notary Public						
this 27th						
day of January, 19 40						

Notary Public, in and for the Vounty of Eochise, State of Arizona.

My commission expires

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

United States Department of the Interior

GENERAL LAND OFFICE

PUBLIC SURVEY OFFICE

PROGRIE, Arizona
, 19_40
I, Office Cadastral Engineer at Phoenix, Arizona
do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey
of the mining claim of
Magna Copper Company
known as the HORSESHOE NO.1, HORSESHOE NO.2, and SILVER TIP EXTENSION NO.2 lod
situate inPioneer
Mining District Pinal County Arizona in Sections 30 & 31, Township No. Range No. 13 E. , and
designated as Survey No. 4231, has been correctly copied from the originals on file in
this office; that said Field Notes furnish such an accurate description of said mining claim as will, if
incorporated into a patent, serve fully to identify the premises, and that such reference is made therein
to natural objects or permanent monuments as will perpetuate and fix the locus thereof.
I further certify that Five Hundred Dollars worth of labor has been expended or improvements
made upon, or for the benefit of, each location embraced in said mining claim by claimant
or <u>1ts</u> grantors,
and that said improvements consist of 3 cuts & 6 drill holes, total value \$14.610.
\$5.515.47 of which is credited to claims other than those in this survey.
A 1/150 interest, value 29202.06, in the main working shaft and the levels
therefrom, is credited to each of the claims in this survey; total value
credited to this survey, \$36.700.71
and that no portion of said labor or improvements has been included in the estimate of expenditures
upon any other claim.
I further certify that the plat thereof, filed in the District Land Office atPhoenix,
Arizona is correct and in conformity with the foregoing Field Notes.

Sherman C. Fishe

Office Cadastral Engineer.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE

PUBLIC SURVEY OFFICE

		AtPhoenix,	Arizona,	
			May.4,	
I, Office Cadastral Engineer	at Phoenix, Ar	izona		
do hereby certify that the foregoi	ng and hereto atta	ched Field Notes a	and Return of the	Survey of the
Mining Claim of				
		***************************************	,	known as the
HORSESHOE NO.1, HORSESHOE	MO.2, and SILVI	ER TIP EXTENSIO	N NO. 2 lodes	
situate in	Pione	er	m	ining district,
Pinal Coun	ty,		Arizona	
25 & 36 in Sections 30 & 31				
, designated	as Survey No	423	1	
executed byR	alph L. Motz			, Mineral
Surveyor,January 21	26	, 194	0, under my instr	uctions dated
December 7	, 19 39	, have been critical	lly examined and	the necessary
corrections and explanations made	, and the said Field	l Notes and Return	, and the Survey t	they describe,
are hereby approved. The certified	ed copy of the loca	tion certificate filed	by the applicant	for survey is
on file in this office and a true co	py of said certified	l copy of said locat	ion certificate is	included and
nade a part of the transcript of th	e field notes.			
	_	Therman	Q.F.	ke
6-7131 U. S. GOVERNMENT PRINTE	NG OFFICE		Office Cadastra	l Engineer.